Quercus prinus - Quercus rubra / Rhododendron maximum / Galax urceolata Forest

COMMON NAME Rock Chestnut Oak - Red Oak / Great Rhododendron / Galax Forest

SYNONYM Chestnut Oak Forest (Mesic Slope Heath Type)

PHYSIOGNOMIC CLASS Forest (I)

PHYSIOGNOMIC SUBCLASS
PHYSIOGNOMIC GROUP
PHYSIOGNOMIC SUBGROUP
Natural/Semi-natural (I.B.2.N)

FORMATION Lowland or submontane cold-deciduous forest (I.B.2.N.a)

ALLIANCE Ouercus prinus - Ouercus rubra Forest Alliance

CLASSIFICATION CONFIDENCE LEVEL 2

USFWS WETLAND SYSTEM Upland

RANGE

Globally

This community occurs in the southern Blue Ridge of Georgia, North Carolina, South Carolina, and Tennessee and could range into Virginia.

Great Smoky Mountains National Park

This association is uncommon and was sampled at only a single location in the northern portion of the Mount Le Conte quadrangle, above Hill Creek. It was observed on the Cades Cove quadrangle in the vicinity of Bunting Branch. It is possible elsewhere in the Park.

ENVIRONMENTAL DESCRIPTION

Globally

This forest is found on moderate to very steep slopes with northerly exposures, typically at elevations greater than 2800 feet. Soils are deep and well-drained, although rock outcroppings may occur.

Great Smoky Mountains National Park

This association was sampled on a steep, north-facing slope at 1780 feet elevation. It should be sought on steep, upper, north-facing slopes at elevations up to 3500 feet.

MOST ABUNDANT SPECIES

Globally

<u>Stratum</u> <u>Species</u>

Tree canopy

Quercus prinus, Quercus rubra

Rhododendron maximum

Great Smoky Mountains National Park

<u>Stratum</u> <u>Species</u>

Tree canopy
Tall shrub

Quercus prinus, Acer rubrum
Rhododendron maximum

CHARACTERISTIC SPECIES

Globally

Quercus prinus, Quercus rubra, Rhododendron maximum, Galax urceolata

Great Smoky Mountains National Park

See above

VEGETATION DESCRIPTION

Globally

This forest is dominated by *Quercus prinus*, usually with lesser amounts of *Quercus rubra* and *Acer rubrum*, occurring over a dense, very tall shrub stratum of *Rhododendron maximum* (2-6 meters). In some areas *Rhododendron minus* may dominate or *Tsuga canadensis* may have dense understory regeneration. Other common shrubs include *Gaylussacia ursina* and *Kalmia latifolia*. Herbs are sparse, but *Galax urceolata* is in most occurrences. Some examples may have sparse canopies and occur in association with rock outcroppings.

Great Smoky Mountains National Park

This forest is dominated by *Quercus prinus*, with lesser amounts of *Acer rubrum*, occurring over a dense, tall-shrub stratum of *Rhododendron maximum*. Groundcover is dominated by leaf litter, and herbs are scattered about. Typical herbs include *Chimaphila maculata, Galax urceolata, Goodyera pubescens*, and *Polystichum acrostichoides*.

OTHER NOTEWORTHY SPECIES

No information

CONSERVATION RANK G3G5

RANK JUSTIFICATION

DATABASE CODE CEGL006286

COMMENTS *Globally*

Great Smoky Mountains National Park

This forest occurs downslope from (Quercus prinus, Quercus coccinea) / Kalmia latifolia / Galax urceolata Forest (CEGL006271) and can continue down slope into steep ravines. It is unlikely that the signature of this association can be distinguished from other Quercus prinus-dominated forests.

REFERENCES

Schafale and Weakley 1990, Simon pers. comm.